

Eekels Frequency converters EVE 690/185M through 370M (160 through 400 kW)



model: 185M through 325M



model: 370M

Characteristics of the EVE frequency converters:

- Reliable
- High starting torque
- Quick response time (1 ms)
- High efficiency-level of the drive
- Frequency range 0,01 up to 200,00 Hz
- Programmable in- and outputs
- Integrated setpoint PID
- Optional fieldbus interface (Profibus-DP etc.)
- Parametering possibility via Modbus
- Common DC-bus
- Universal control system
- According EnergieNed directive
- Motor sound switching behaviour
- Deliverable in standard cabinet systems
- Dynamic control
- Attractive price performance ratio

EVE frequency converters are equipped with the most modern techniques.

Functionality of the converters is based on more than 25 years of experience in design, production and applying frequency controlled drives.

Each converter is equipped with a control system that converts a standard squirrel cage motor into a perfect adjustable drive.

Eekels, as the manufacturer of the frequency converters, can add hard and software modules to customise the drive.

The standard frequency converter supports many applications, such as: paper machines, cranes, centrifuges, fans etc.

Besides products and systems Eekels also implements Turn Key drive projects.



Product range drive technology:

- Frequency converters up to 1,2 MW/690V/12P
- Bi-directional supply units and choppers
- SR-speed control (0,01%)
- Soft starters
- Motors



Technical specifications

EVE690/ . . .	185M		225M		285M		325M		370M	
duty class	II	I	II	I	II	I	II	I	II	I
max. motoroutput	160 kW	200 kW	200 kW	250 kW	250 kW	315 kW	315 kW	355 kW	355 kW	400 kW
max. output current	168 A	209 A	209 A	255 A	255 A	321 A	321 A	362 A	325 A	403 A
overload (60s)	150 %	120 %	150 %	120 %	150 %	120 %	150 %	120 %	150 %	120 %
manufacturer	EEKELS ELEKTROTECHNIEK B.V.									
input line voltage	3 x 690V +10 - 15%									
input line frequency	50/60 Hz									
line current	148 A	185 A	185 A	231 A	231 A	291 A	291 A	328 A	328 A	370 A
cos phi	ca. 0,96									
max. line fuse	315 A gR		350 A gR		450 A gR		500 A gR		internal	
output line voltage	3 x 0-690V									
frequency range	0-100,00Hz / 0-200,00Hz									
efficiency	higher than 98%									
max. power loss	3,2 kW	4 kW	4 kW	5 kW	5 kW	6,3 kW	6,3 kW	7,1 kW	7,1 kW	8 kW
cabinet air flow [m3/h]	1100	1100	1600	1600	1600	1600	1600	1600	2200	2200
max. ambient temp.	40 °C (up to 50 °C with reduction)									
degree of protection	IP-20 (up to IP-55 on request)									
max. length motor cable	150 m (> 150m optional)									
communication	MODBUS-RTU RS 232 (optional: RS485, fieldbus interface)									
interference protection	IEC 61800-3 (EN 55011 optional)									
line disturbance	According Energiened directive with internal AC-choke									
mass	500		520 kg		530 kg		550 kg		750 kg	
dimension (hxbxd) mm	2365x800x600		2365x800x600		2365x800x600		2365x800x600		2365x1600x600	

Available types:

380V through 690V / 6 and 12 puls / DC, 50 and 60Hz

type: EVE690/370M

